

#### ABSTRACT OF THE DISCLOSURE

A method for purifying N-methyl-2-pyrrolidone is disclosed. The method comprises treating N-methyl-2-pyrrolidone with an alumina that  
5 desorbs less than 100  $\mu\text{mol/g}$  of isobutylene between 225°C and 400°C in a standard tert-butyl alcohol dehydration test. The method enables the removal of at least about 80% of amine impurities or at least about 60% of APHA color from the NMP at 4 bed volumes treated.

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